



#31
Prost E

PATENT
Attorney Docket 054163-5001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application:) **BOX RCE**
Stephen A. JOBLING *et al.*)
Application No. 09/297,703)
Filed: July 19, 1999) Group Art Unit: 1638
For: IMPROVEMENTS IN OR RELATING TO STARCH) Examiner: Anne Kubelik
CONTENT OF PLANTS)

AMENDMENT AND RESPONSE UNDER 37 C.F.R. 1.114

This Amendment is filed in response to the Final Office Action dated May 16, 2002 (Paper No. 21) and the Advisory Action dated December 3, 2002 (Paper No. 28).

Please amend this application as follows:

In the specification:

Please replace the paragraph beginning on page 4, line 12 with the following paragraph:

E1
Conveniently the nucleic acid sequence is obtainable from cassava, preferably obtained therefrom, and typically encodes a polypeptide obtainable from cassava. In a particular embodiment, the encoded polypeptide may have the amino acid sequence NSKH (SEQ ID NO: 32) at about position 697 (in relation to Figure 4 (SEQ. ID. NO. 29)), which sequence appears peculiar to an isoform of the SBE class A enzyme of cassava, other class A SBE enzymes having the conserved sequence DA D/E Y (SEQ ID NO: 33) (Burton et al., 1995 cited above).

{ Please replace the paragraph beginning on page 6, line 7 with the following paragraph: }

E2
In another aspect the invention provides a polypeptide having SBE activity, the polypeptide comprising an effective portion of the amino acid sequence shown in Figure 4 (SEQ. ID. NO. 29) or Figure 13 (SEQ. ID. NO. 31). The polypeptide is conveniently one obtainable from cassava, although it may be derived using recombinant DNA techniques. The polypeptide